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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/033,929	12/19/2001	Akira Ando	P/1071-1530(DIV)	2516	
7590 10/28/2004			EXAMINER		
Dickstein Sha	piro, et al	KIM, PAUL D			
1177 Avenue of	f the Americas		<del></del>		
41st floor		ART UNIT	PAPER NUMBER		
New York, NY	10036-2714	3729			

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Δr	pplication No.	Applicant(s)				
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Office Action Summar	a, L	0/033,929	ANDO ET AL.				
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The MAILING DATE of this con		ul D Kim	ith the correspondence add	7000			
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A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMON - Extensions of time may be available under the properties of the state of this - If the period for reply specified above, the maximum - If NO period for reply is specified above, the maximum - Failure to reply within the set or extended period for Any reply received by the Office later than three mearned patent term adjustment. See 37 CFR 1.70	MUNICATION. visions of 37 CFR 1.136(a). s communication. hirty (30) days, a reply withi num statutory period will app or reply will, by statute, caus onths after the mailing date	In no event, however, may a in the statutory minimum of thi ply and will expire SIX (6) MO se the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this com  BANDONED (35 U.S.C. § 133).	nmunication.			
Status							
1) Responsive to communication(	s) filed on						
2a)☐ This action is <b>FINAL</b> .	2b)⊠ This acti	ion is non-final.					
<u> </u>	·—		ters, prosecution as to the r	merits is			
	Since this application is in condition for allowance except for formal matters, prosecution as to the meritic closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in	the application						
4a) Of the above claim(s)		rom consideration					
5) Claim(s) is/are allowed.	_ lorare witharawith	om consideration.					
6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
7) Claim(s) is/are objected	to.						
8) Claim(s) are subject to re		ction requirement.					
Application Papers			•				
9)⊠ The specification is objected to t	ny the Examiner						
10)⊠ The drawing(s) filed on 19 Dece	•	a)⊠ accepted or b)□	objected to by the Examir	ner.			
Applicant may not request that any		, , , , , , , , , , , , , , , , , , , ,	- •				
Replacement drawing sheet(s) incl	-	• • • • • • • • • • • • • • • • • • • •	• •	R 1.121(d).			
11) The oath or declaration is object	-	-					
Priority under 35 U.S.C. § 119	•						
<u> </u>			C 440(-) (d) (5)				
12)⊠ Acknowledgment is made of a c a)⊠ All b)□ Some * c)□ None	• •	rity under 35 U.S.C.	§ 119(a)-(d) or (f).				
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<ul><li>1. ☐ Certified copies of the pri</li><li>2. ☒ Certified copies of the pri</li></ul>			Application No. 00/772 051	4			
			received in this National S	tana			
application from the Interior			rreceived in this Hational S	laye			
* See the attached detailed Office	•	, ,,	received.				
Attachmont(c)							
Attachment(s)  1) X Notice of References Cited (PTO-892)		A) Intensions	Summary (PTO-413)	·			
<ul><li>1) Notice of References Cited (P10-692)</li><li>2) Notice of Draftsperson's Patent Drawing Review</li></ul>	ew (PTO-948)	Paper No	s)/Mail Date				
3) 🔯 Information Disclosure Statement(s) (PTO-14			Informal Patent Application (PTO-1	152)			
Paper No(s)/Mail Date <u>5/26/04</u> .		6)	<u> </u>				

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#### **DETAILED ACTION**

### Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: --A METHOD OF PRODUCING A PIEZOELECTRIC ELEMENT--.

### Claim Objections

2. Claims 2-11 are objected to because of the following informalities:

Re. Claims 2-11: The phase "A method" as recited in line 1 changes to –The method--.

Re. Claim 2: The phrase "an electrode paste" as recited in line 2 appears to be – the electrode paste--.

Re. Claim 5: The phrases "a conductor" and "an insulator" as recited in line 2 appear to be –the conductor-- and –the insulator--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1 the phrase "the C axes of the piezoelectric body materials are oriented substantially parallel to the lamination direction of the laminate, and polarizing the fired laminate substantially perpendicular to the orientation direction of the C axes" as recited in lines 10-14 renders the claim vague and indefinite. It is unclear as to what the C axes of the piezoelectric body materials are indicated. In addition the phrase "the C axes" as recited in line 10 lacks antecedent basis.

### Allowable Subject Matter

- 5. Claims 1-11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 6. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to disclose the claimed invention such as laminating the piezoelectric body having perovskite structure and the C axes of the piezoelectric body materials are oriented substantially parallel to the lamination direction of the laminate, and polarizing the fired laminate substantially perpendicular to the orientation direction of the C axes.

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#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D Kim whose telephone number is 703-308-8356. The examiner can normally be reached on Tuesday-Friday between 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul D Kim

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